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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,673	03/31/2004	Laurent Albera	4590-286	4358
33308	7590 07/13/2005		EXAM	INER
	J <mark>PTMAN GILMAN</mark> OSTIC ROAD, SUITI	TSAI, CA	TSAI, CAROL S W	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2057	

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u></u>					
	Application No.	Applicant(s)				
	10/813,673	ALBERA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Carol S. Tsai	2857				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply sis specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply b ply within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for the cause the application to become ABANDO	e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133).				
Status		· .				
1)⊠ Responsive to communication(s) filed on 311	March 2004.					
	. · ·					
3) Since this application is in condition for allowed						
Disposition of Claims						
4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.8 and 9 is/are rejected. 7) □ Claim(s) 2-7 and 10-20 is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin	er.					
10)☐ The drawing(s) filed on is/are: a)☐ ac	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	• , ,	• •				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	,	• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applic Ority documents have been rece au (PCT Rule 17.2(a)).	cation No eived in this National Stage				
Attachment(s)		,				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8/12/2004. 	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:	nary (PTO-413) il Date al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 8, and 9 are rejected under 35 U.S.C. 102(a) as being anticipated by U. S. Patent No. 6,711,528 to Dishman et al.

With respect to claims 1 and 9, Dishman et al. disclose a method of blind identification of sources within a system including P sources and N receivers, comprising the steps of identifying the matrix of direction vectors of the sources from the information proper to the direction vectors a_p of the sources contained redundantly in the m=2q order circular statistics of the vector of the observations received by the N receivers (see Abstract, lines 1-17; col. 5, lines 48-56; and col. 9, line 19 to col. 10, line 17).

As to claim 8, Dishman et al. also disclose a communications network (see col. 1, lines 27-35).

Allowable Subject Matter

3. Claims 2-7 and 10-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dogan et al. disclose method and apparatus for complex phase equalization in a communication system.

Cao et al. disclose blind channel equalization methods, receivers and systems incorporating the same for use in a multiple-input, multiple-output, (MIMO) wireless communication system.

Papadias discloses a method for blind separation of independent source signals.

Ferreol disclose method and device for space-time estimation of one or more transmitters based on signals received using an antenna network.

Jackson, Jr. II et al. disclose methods and devices for reducing undesired signals in a communication environment.

Affes et al. disclose a receiver of the present invention addressing the need for improved interference suppression without the number of transmissions by the power control system being increased, and, to this end, providing a receiver for a CDMA communications system which employs interference subspace rejection to tune a substantially null response to interference components from selected signals of other user stations.

Ferreol disclose method and device to carry out space-time estimation of several transmitters in an antenna network, consisting of determining the various arrival angles of the multipaths transmitted by each transmitter.

Baxter et al. disclose a method of blind signal separation of convolutively mixed signals

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comprising firstly processing signals to produce second order independence.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. W. Tsai whose telephone number is (571) 272-2224. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571) 272-2216. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll-free).

> Cols.W.Z Carol S. W. Tsai Primary Examiner Art Unit 2857

cswt July 07, 2005